# **Special Issue**

# Advances in Titanium and Titanium Alloys

## Message from the Guest Editors

Significant advancements have been made in the fields of advanced manufacturing and forming, alloy development, microstructural design, and enhancement of mechanical properties of titanium-based alloys. The rapid progress in advanced manufacturing technologies and alloy design concepts has brought about a continuous reduction in the manufacturing cost of titanium alloys while simultaneously improving their service performance. This has greatly facilitated the widespread engineering applications of advanced titanium alloys and their components. This Special Issue aims to present the latest academic achievements and research progress related to titanium-based alloys, including (but not limited to) alloy development, microstructure design, microstructure-property relationships, as well as advanced manufacturing technologies. We welcome original research articles and reviews that focus on cutting edge academic accomplishments concerning novel concepts in alloy design and advanced manufacturing technologies that enhance the service performance and promote applications of titanium alloys and TiAl intermetallics. We look forward to receiving your contributions.

#### **Guest Editors**

Prof. Dr. Hongzhi Niu

School of Materials Science and Engineering, Northeastern University, Shenyang 110819, China

Dr. Changjiang Zhang

College of Materials Science and Engineering, Taiyuan University of Technology, Taiyuan 030024, China

## Deadline for manuscript submissions

closed (30 August 2024)



# Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/194354

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34

mdpi.com/journal/ metals

metals@mdpi.com





# Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3





# **About the Journal**

# Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

#### **Editors-in-Chief**

# Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

## Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

#### **Author Benefits**

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).